

专利合作条约

PCT

国际初步审查报告 (PCT 条约 36 和细则 70)

REC'D 07 OCT 2003

WIPO PCT

申请人或代理人的档案号 IEM020043PCT	关于后续行为 参见“传送国际初步审查报告的通知”(PCT/IPEA/416 表)	
国际申请号 PCT/CN03/00006	国际申请日(日/月/年) 06.1 月 2003 (06.01.03)	优先权日(日/月/年) 08.1 月 2002(08.01.02)
国际专利分类(IPC)或者国家分类和 IPC 两种分类 IPC ⁷ : G21C1/03		
申请人 中国核动力研究设计院 等		

1. 本国际初步审查单位已作出国际初步审查报告并依照条约第 36 条将其传送给申请人。
2. 本报告共计 4 页, 包括扉页。
☐ 本报告还有附件, 即修改后的并且作为本报告基础的说明书修改页、权利要求书修改页和/或附图修改页, 和/或对本国际初步审查单位所作出的更正页(见 PCT 细则 70.16 和行政规程 607)。
 这些附件共计____页

3. 本报告包括关于下列各项的内容:

- I ☒ 报告的基础
- II ☒ 优先权
- III ☐ 不作出关于新颖性、创造性和工业实用性的意见
- IV ☐ 缺乏发明的单一性
- V ☒ 按条约 35(2)关于新颖性、创造性或工业实用性的推断性意见; 支持这种意见的引证和解释
- VI ☐ 引用的某些文件
- VII ☐ 国际申请中的某些缺陷
- VIII ☐ 对国际申请的某些意见

提交要求书的日期
25.7 月 2003 (25.07.03)

完成本报告的日期
15.9 月 2003 (15.09.03)

国际初步审查单位名称和地址
IPEA/CN
中国北京市海淀区西土城路 6 号(100088)
传真号: 86-10-62019451

授权官员
杜江峰
电话号码: 62093185



I. 报告的基础

1. 关于国际申请中各个部分：*

☒ 原始提交的国际申请。

☐ 说明书, 第 _____ 页, 原始提交的,
第 _____ 页, 要求书提交的,
第 _____ 页, _____ 的信件提交的。

☐ 权利要求, 第 _____ 页, 始提交的,
第 _____ 页, 条约第 19 条修改的(附有说明),
第 _____ 页, 要求书提交的。
第 _____ 页, _____ 的信件提交的。

☐ 附图, 第 _____ 页, 原始提交的。
第 _____ 页, 随要求书提交的,
第 _____ 页, _____ 的信件提交的。

☐ 说明书中的序列表部分
第 _____ 页, 原始要求提交的,
第 _____ 页, 随要求书提交的,
第 _____ 页, _____ 的信件提交的。

2. 关于所使用的语言, 除本项下另有说明外, 本国际初步审查单位所获得的或者已向本国际初步审查单位提交的上述所有部分, 所使用的语言均为提交本国际申请时所使用的语言。

本国际初步审查单位所获得的或向本国际初步审查单位提交的这些部分所使用的语言是 _____,
这种语言是

- ☐ 为了国际检索而提交的译本所使用的语言(细则 23.1(b))。
- ☐ 本国际申请公布时所使用的语言(细则 48.3(b))。
- ☐ 为了国际初步审查而提交的译本所使用的语言(细则 55.2 和/或 55.3)。

3. 关于本国际申请中所公开的任何核甞酸和/或氨基酸的序列, 本国际初步审查是根据下面的序列表进行的:

- ☐ 国际申请中所包含的书写形式的序列表。
- ☐ 与国际申请同时提交的计算机可读形式的序列表。
- ☐ 后来以书写形式向本国际初步审查单位提交的序列表。
- ☐ 后来以计算机可读的形式向本国际初步审查单位提交的序列表。
- ☐ 已提交了关于后来提交的书写形式的序列表没有超出原始提交的国际申请所公开的范围的说明。
- ☐ 已提交了关于以计算机可读的形式记载的信息是与书写形式的序列表相同的说明。

4. 修改删除了以下内容:

- ☐ 说明书, 第 _____ 页
- ☐ 权利要求, 第 _____ 项
- ☐ 附图, 第 _____ 页, 图 _____

5. ☐ 由于(某些)修改被认为超出了原始公开的范围, 如补充栏所示, 因此本报告是按照如同没有修改的情况作出的(细则 70.2(c)). **

* 按照条约第 14 条答复通知时向受理局提交的替换页, 在本报告中被称为“原始提交的”, 这些替换页不作为本报告的附件, 因为它们没有包含修改(细则 70.16 和 70.17)。

** 任何包含这种修改的替换页, 都必须在第 1 项中指明, 并作为本报告的附件。

II. 优先权

1. ☐ 本报告是按照如同没有要求任何优先权的情况作出的，因为没有在规定的期限内提交所需要的下列文件：

☐ 被要求优先权的在先申请的副本（细则 66.7 (a)）。

☐ 被要求优先权的在先申请的译本（细则 66.7 (b)）。

2. ☐ 由于发现所要求的优先权是无效的，因此本报告是按照如同没有要求任何优先权的情况作出的（细则 64.1）。因而，本报告中上面指明的国际申请日被认为是相关日。

3. 补充意见（如必要时）：

申请日为 29.5 月 2003(29.05.02)的在先申请 02120704.6 已经要求过国内优先权，因此本申请的第（2）项优先权不成立。

国际初步审查报告

国际申请号

PCT/CN03/00006

V. 按条约 35 条(2)关于新颖性、创造性或工业实用性的推断性意见；支持这种意见的引证和解释

1. 意见

新颖性(N)	权利要求 1-5	是
	权利要求 无	否
创造性(IS)	权利要求 1-5	是
	权利要求 无	否
工业实用性(IA)	权利要求 1-5	是
	权利要求 无	否

2. 引征和解释 (细则 70.7)

对比文件 1: CN1385861A (北京北大青鸟有限责任公司) 18.12 月 2002(18.12.02), 全文

对比文件 2: CN1061104A (清华大学) 13.5 月 1992(13.05.92), 全文

对比文件 3: JP2000-221297A (东芝株式会社) 11.8 月 2000(11.08.00), 全文

对比文件 4: JP61-70496A (日立株式会社) 11.4 月 1986(11.04.86), 全文

对比文件 5: JP62-269099A (东芝株式会社) 21.11 月 1987(21.11.87), 全文

由于本申请所要求的第 (1) 项优先权成立, 对比文件 1 不构成抵触申请; 上述对比文件 2-5 都没有公开权利要求 1 的技术方案, 权利要求 1 具有专利合作条约第 33 条第 2 款规定的新颖性。

权利要求 1 相对于上述对比文件 2-5 的结合是非显而易见的, 符合专利合作条约第 33 条第 3 款有关创造性的规定。

从属权利要求 2-5 引用权利要求 1 也就具有专利合作条约第 33 条第 2 款、第 3 款所述的新颖性和创造性的规定。

权利要求 1-5 具有专利合作条约第 33 条第 4 款规定的实用性。

Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference IBM020043PCT		FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/CN03/00006	International filing date (day/month/year) 06.JAN.2003 (06.01.03)	Priority date (day/month/year) 08.JAN.2002 (08.01.02)	
International Patent Classification (IPC) or national classification and IPC IPC ⁷ : G21C1/03			
Applicant NUCLEAR POWER INSTITUTE OF CHINA ETAL			
<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 4 sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and /or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of _____ sheets.</p>			
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input checked="" type="checkbox"/> priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty ,inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2)with regard to novelty ,inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international opplication.</p>			
Date of submission of the demand 25.JULY.2003 (25.07.03)		Date of completion of this report 15.SEP.2003 (15.09.03)	
Name and mailing address of the IPEA/CN 6 Xitucheng Rd., Jimen Bridge, Haidian District, 100088 Beijing, China Facsimile No. 86-10-62019451		Authorized officer DUJIANGFENG Telephone No.62093185	



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/CN03/00006

I. Basis of the report

1. With regard to the elements of the international application:

☒ the international application as originally filed☐ the description:

pages _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

☐ the claims:

Nos _____, as originally file

Nos _____, as amended (together with any statement) under Article 19

Nos _____, filed with the demand

Nos _____, filed with the letter of _____

☐ the drawings:

sheets/fig _____, as originally filed

sheets/fig _____, filed with the demand

sheets/fig _____, filed with the letter of _____

☐ the sequence listing part of the description:

pages _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

2. with regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).☐ the language of publication of the international application (under Rule 48.3(b)).☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.☐ filed together with the international application in computer readable form.☐ furnished subsequently to this Authority in written form.☐ furnished subsequently to this Authority in computer readable form.☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.4. ☐ The amendments have resulted in the cancellation of:☐ the description, pages _____☐ the claims No. _____☐ the drawings, sheets/fig _____5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/CN03/00006

II. Priority

1. ☐ This report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested:

☐ copy of the earlier application whose priority has been claimed (Rule 66.7(a)).

☐ translation of the earlier application whose priority has been claimed (Rule 66.7(b)).

2. ☐ This report has been established as if no priority had been claimed due to the fact that the priority claim has been found Invalid (Rule 64.1).

Thus for the purposes of this report, the international filing date indicated above is considered to be the relevant date.

3. Additional observations, if necessary:

The earlier application 02120704.6 that filing data is 29.MAY.2003(29.05.03) has been claimed right of priority of china, thus the right of priority (2) of the application is invalid.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/CN03/00006

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement:			
Novelty (N)	Claims	1-5	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	1-5	YES
	Claims	NONE	NO
Industrial applicability (IA)	Claims	1-5	YES
	Claims	NONE	NO

2. Citations and explanations (Rule 70.7)

Document 1: CN1385861A (PEKING BEIDA JADE BIRD LTD) 18.DEC.2002(18.12.02), the whole document.

Document 2: CN1061104A(UNIV QINGHUA)13.MAY.1992(13.05.92), the whole document.

Document 3: JP2000-221297A(TOKYO SHIBAURA ELECTRIC CO)11.AUG.2000(11.08.00), the whole document.

Document 4: JP61-70496A(HITACHI LTD, HITACHI ENG CO LTD)11.APR.1986(11.04.86), the whole document.

Document 5: JP62-269099A(TOKYO SHIBAURA ELECTRIC CO, TOSHIBA ENGINEERIN CO)21.NOV.1987(21.11.87), the whole document.

Document 1 is not a conflicting application since the right of priority(1) of the application is valid. None of the documents 2-5 disclosed the claim 1, the subject matter of claim 1 is novel under PCT Art 33(2).

In relation to the combination of the documents 2-5, Claim 1 is non-obvious, and involves an inventive step under PCT Art.33(3).

The dependent claims 2-5 referred to claim 1 are novelty and inventive step under PCT Art.33(2)-(3).

The claims 1-5 are industrial applicability under PCT Art.33(4).